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Aug 29, 1981

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TITLE: Conditioner for heavy clay soil - contains aluminium, ammonium and organic acid ions for improved granulation effect

PRIORITY-DATA: 1980JP-0012763 (February 4, 1980)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 56109281 A	August 29, 1981		003	
JP 87036077 B	August 5, 1987		000	

INT-CL (IPC): C09K 17/00

ABSTRACTED-PUB-NO: JP 56109281A

BASIC-ABSTRACT:

The soil conditioner contains Al ion, NH₄ ion and organic acid ion. Al/organic acid is 0.1-1.5 by mol. The ratio of C from organic acid to N from NH₄ is 5-30. Pref. the mixt. of Al salt of organic acid such as formic, oxalic and citric acids, and ammonium salt of organic or inorganic acid.

A part of Al ion may be replaced with trivalent Fe ion in Al/Fe ratio of below 0.5. The conditioner is usually used in liq. and is applied in 50-800 kgs. as R2O₃ (R is Al plus Fe) to 10 a. (100 tons) of soil which contains above 25 wt.% of clay particles in the size of below 0.002 mm.

The soil conditioner shows improved granulation effect without decrease in pH of soil and increase in EC.